

CLAIMS

I claim:

- 1 1. A printing unit cylinder for a rotary printing machine, comprising a body
2 made of a metallic material having a linear coefficient of expansion of about α
3 $< 5 \times 10^{-6} \text{ K}^{-1}$ in a temperature range of from about 20° to about 60°.
- 1 2. A printing unit cylinder for a rotary printing machine according to claim
2 1, wherein said metallic material has a linear coefficient of expansion of about $\alpha < 1.5 \times 10^{-6}$
3 K^{-1} in a temperature range of from about 20° to about 60°.
- 1 3. The printing unit cylinder as claimed in claim 1, wherein said metallic
2 material is an iron alloy having about 30% to about 40% nickel by weight.
- 1 4. The printing unit cylinder as claimed in claim 3, wherein said metallic
2 material is an iron alloy having about 36% nickel by weight.
- 1 5. The printing unit cylinder according to claim 1, wherein the entire
2 cylinder is made of said metallic material.
- 1 6. The printing unit cylinder according to claim 2, wherein the entire
2 cylinder is made of said iron alloy.
- 1 7. The printing unit cylinder according to claim 3, wherein the entire
2 cylinder is made of said iron alloy.

1 8. The printing unit cylinder according to claim 4, wherein the entire
2 cylinder is made of said iron alloy.

1 9. The printing unit cylinder according to claim 1, wherein the body is
2 made of a barrel as a central piece and two journals on either side of the barrel and only the
3 barrel of said cylinder is made of said metallic material.

1 10. The printing unit cylinder according to claim 2, wherein the body is
2 made of a barrel as a central piece and two journals on either side of the barrel and only the
3 barrel of said cylinder is made of said metallic material.

1 11. The printing unit cylinder according to claim 3, wherein the body is
2 made of a barrel as a central piece and two journals on either side of the barrel and only the
3 barrel of said cylinder is made of said metallic material.

1 12. The printing unit cylinder according to claim 4, wherein the body is
2 made of a barrel as a central piece and two journals on either side of the barrel and only the
3 barrel of said cylinder is made of said metallic material.